

Title (en)  
STABILIZED, SPRAYABLE EMULSION CONTAINING ACTIVE AGENT PARTICLES

Title (de)  
STABILISIERTE, SPRÜHBARE EMULSION MIT WIRKSTOFFPARTIKELN

Title (fr)  
ÉMULSION STABILISÉE PULVÉRISABLE CONTENANT DES PARTICULES D'AGENT ACTIF

Publication  
**EP 3104843 A1 20161221 (EN)**

Application  
**EP 15749175 A 20150211**

Priority  
• US 201461939829 P 20140214  
• US 2015015316 W 20150211

Abstract (en)  
[origin: US2015231072A1] A sprayable emulsion is provided. The emulsion can be used in the treatment of various skin conditions. The emulsion includes a hydrofluoro-based propellant, an emulsification system, an oil phase, a water phase, and active agent particles. Further, the emulsification system includes at least one nonionic emulsifier. The emulsion has a viscosity ranging from about 500 centipoise to about 10,000 centipoise and a hydrophilic to lipophilic balance (HLB) value of from about 2 to about 12. The present inventors have found that by selectively controlling the nature of the emulsification system and the viscosity of the emulsion, the active agent particles resist settling such that a substantially homogeneous distribution of the active agent particles is maintained and can be evenly sprayed onto a surface without running once applied.

IPC 8 full level  
**A61K 9/113** (2006.01); **A61K 47/02** (2006.01); **A61K 47/44** (2006.01)

CPC (source: EP KR US)  
**A61K 9/0014** (2013.01 - EP KR US); **A61K 9/107** (2013.01 - KR US); **A61K 9/124** (2013.01 - EP KR US); **A61K 33/30** (2013.01 - EP KR US); **A61K 47/10** (2013.01 - EP KR US); **A61K 47/24** (2013.01 - EP KR US); **A61K 47/26** (2013.01 - EP KR US); **A61K 47/32** (2013.01 - KR US); **A61K 47/34** (2013.01 - KR US); **A61K 47/36** (2013.01 - KR US); **A61P 17/00** (2017.12 - EP); **A61P 17/04** (2017.12 - EP); **A61P 17/16** (2017.12 - EP); **A61P 23/02** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 31/10** (2017.12 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 2015231072 A1 20150820**; **US 9381156 B2 20160705**; AU 2015217275 A1 20160714; AU 2015217275 B2 20191121; CA 2936416 A1 20150820; CA 2936416 C 20220531; CN 105979932 A 20160928; CN 105979932 B 20200410; EP 3104843 A1 20161221; EP 3104843 A4 20171018; JP 2017508735 A 20170330; JP 2019085426 A 20190606; JP 6499192 B2 20190410; JP 6826143 B2 20210203; KR 102337618 B1 20211208; KR 20160120284 A 20161017; MX 2016009388 A 20170413; US 2016279061 A1 20160929; US 9700510 B2 20170711; WO 2015123238 A1 20150820

DOCDB simple family (application)  
**US 201514619108 A 20150211**; AU 2015217275 A 20150211; CA 2936416 A 20150211; CN 201580007957 A 20150211; EP 15749175 A 20150211; JP 2016551797 A 20150211; JP 2019045715 A 20190313; KR 20167021680 A 20150211; MX 2016009388 A 20150211; US 2015015316 W 20150211; US 201615173849 A 20160606